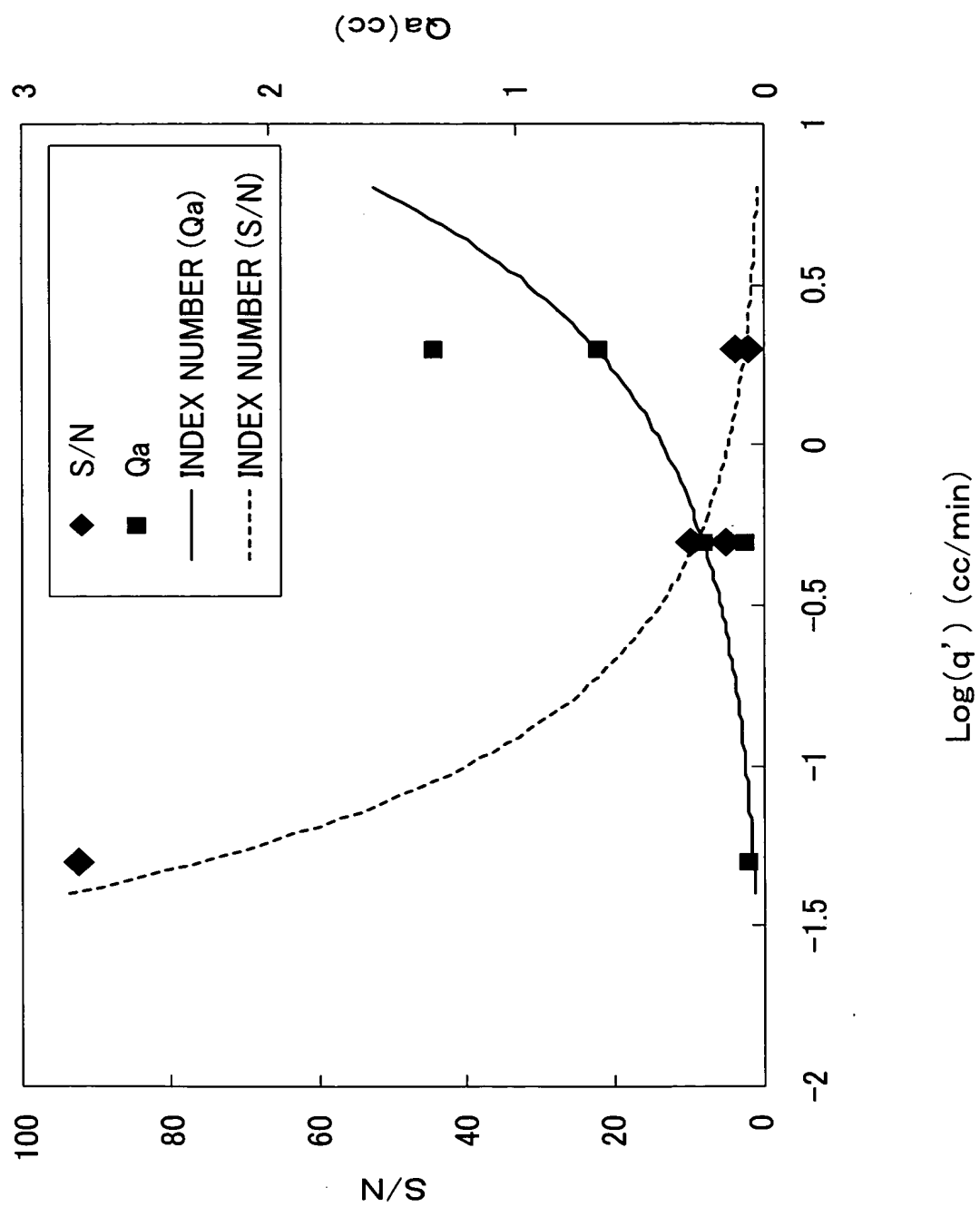


FIG. 1



**FIG. 2**

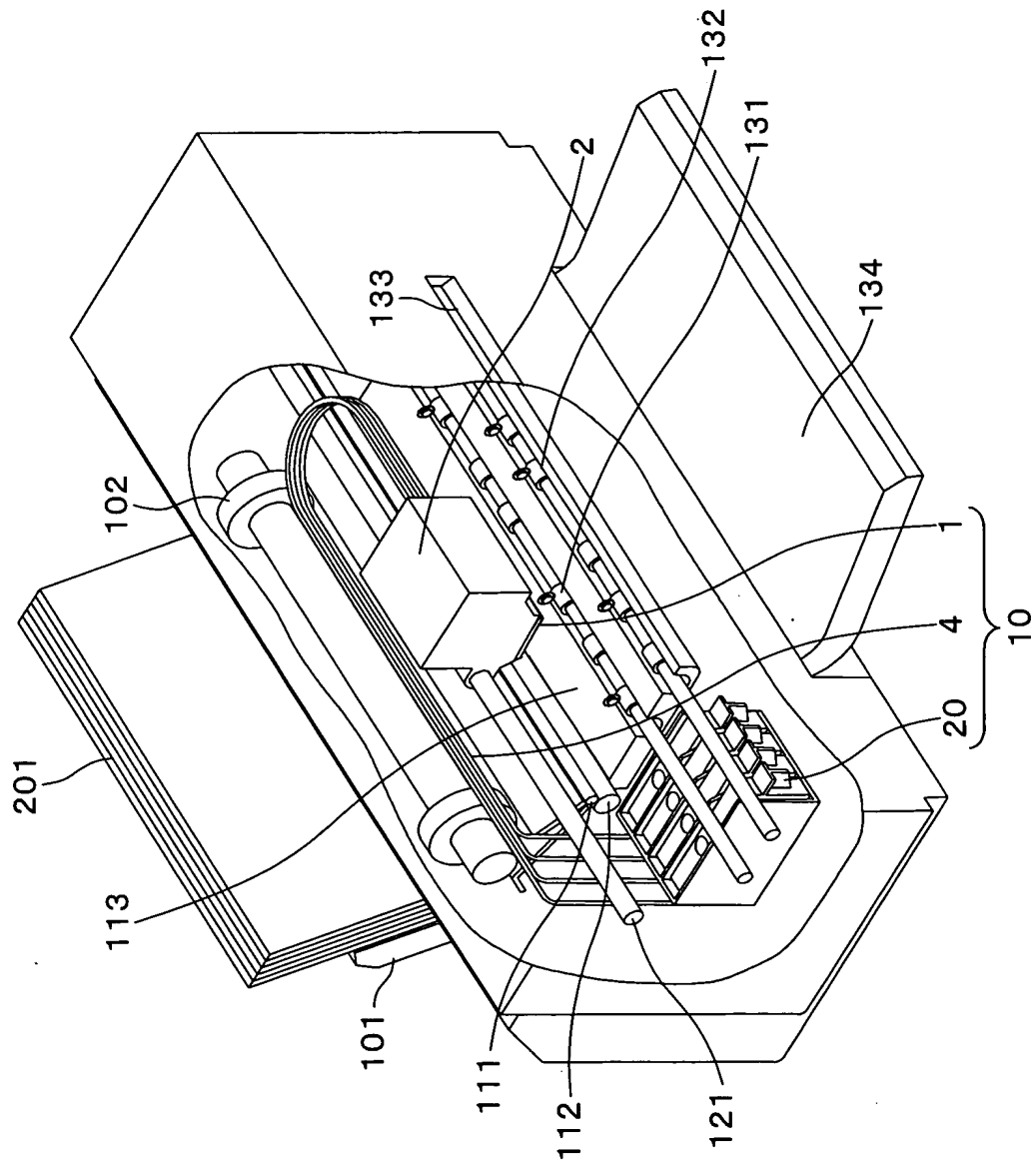


FIG. 3

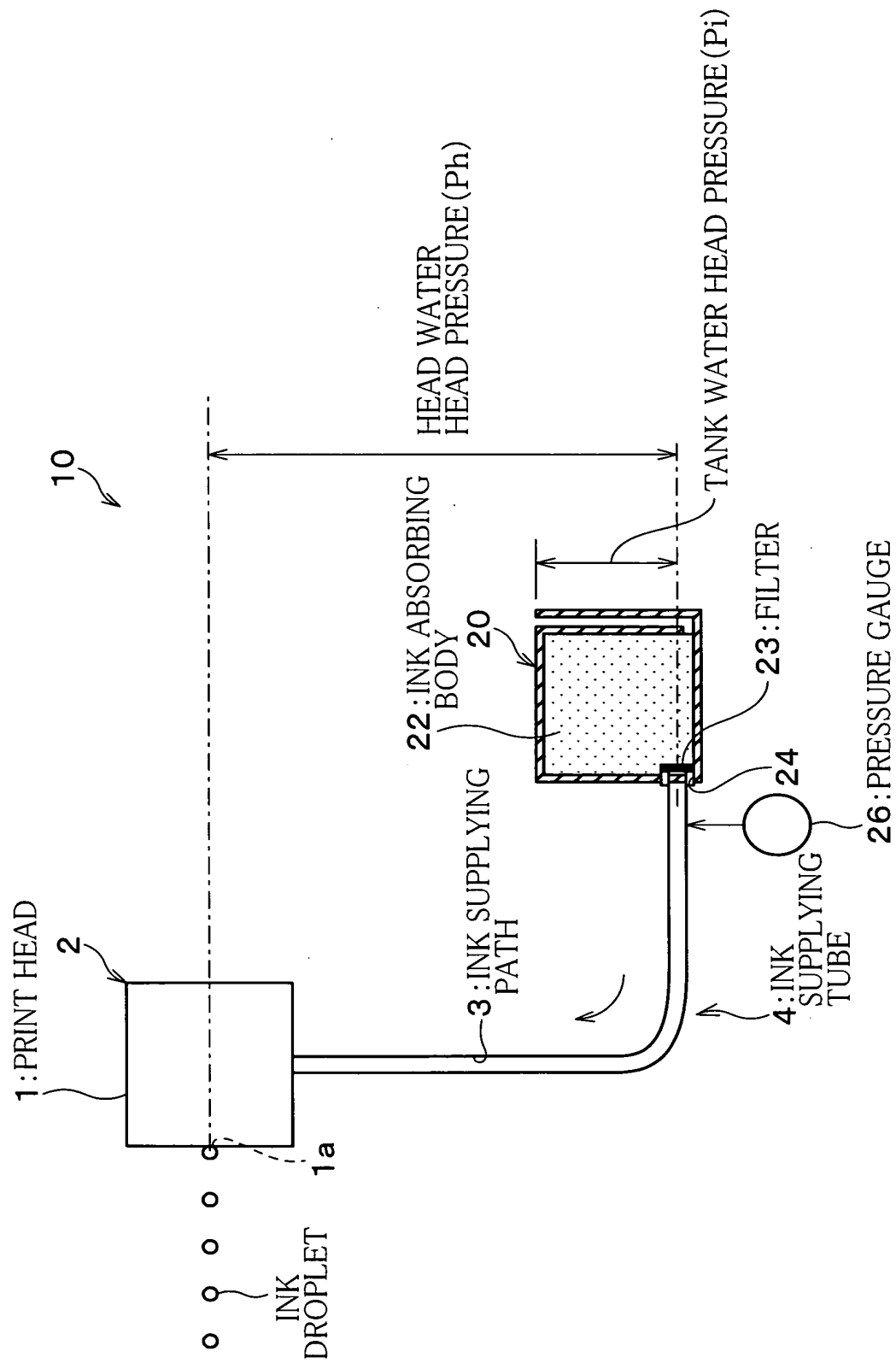


FIG. 4 (a)

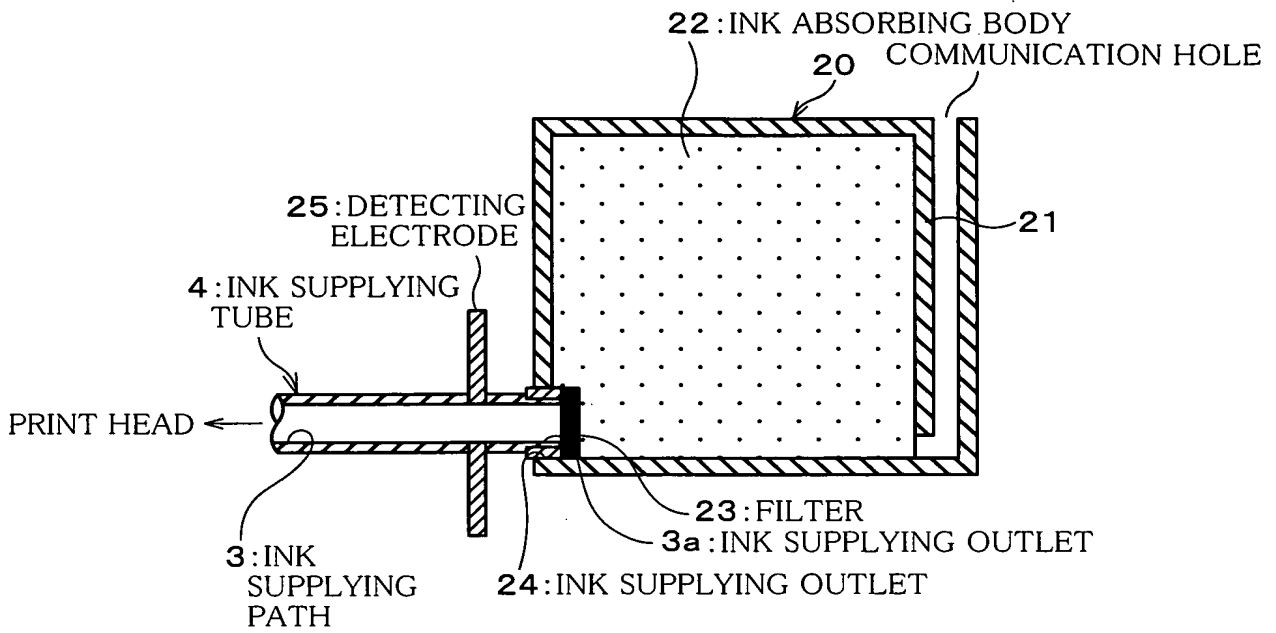


FIG. 4 (b)

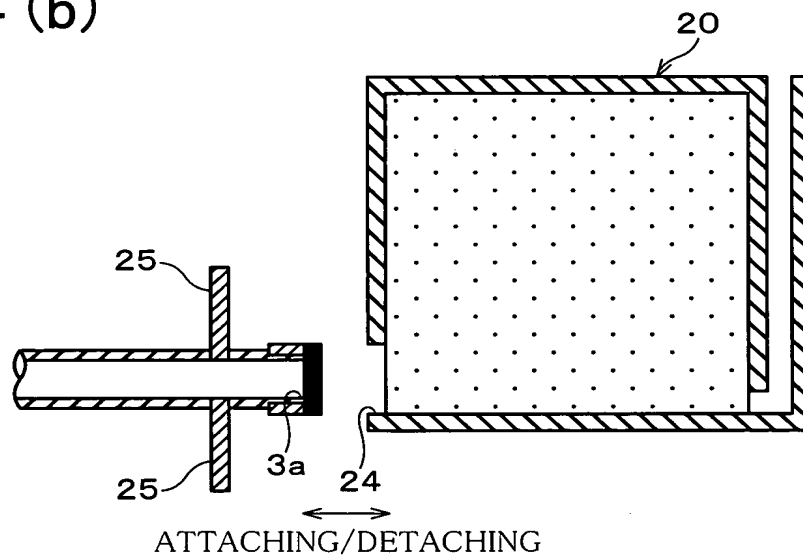


FIG. 4 (c)

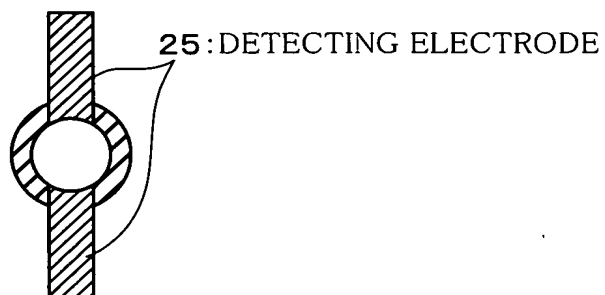


FIG. 5

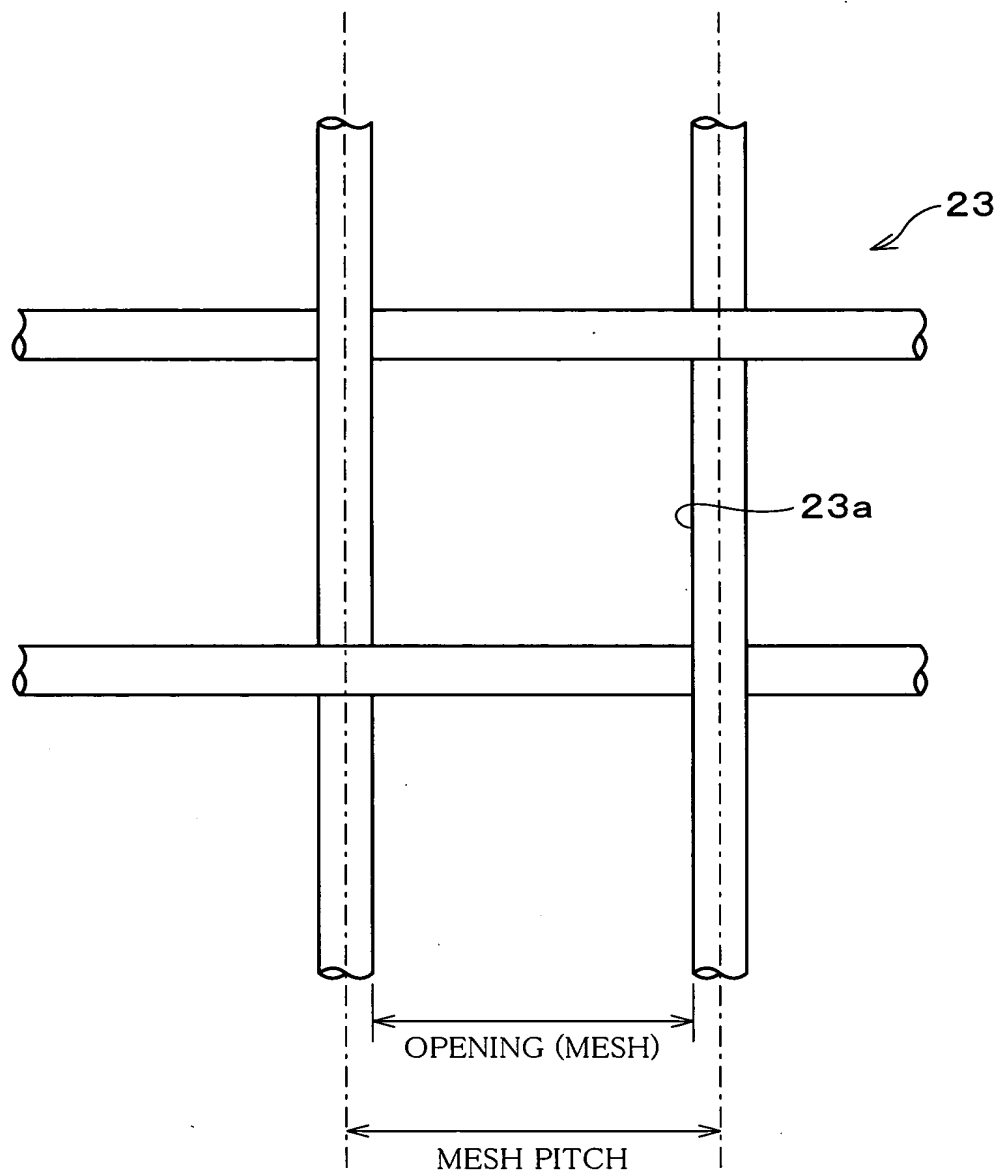


FIG. 6

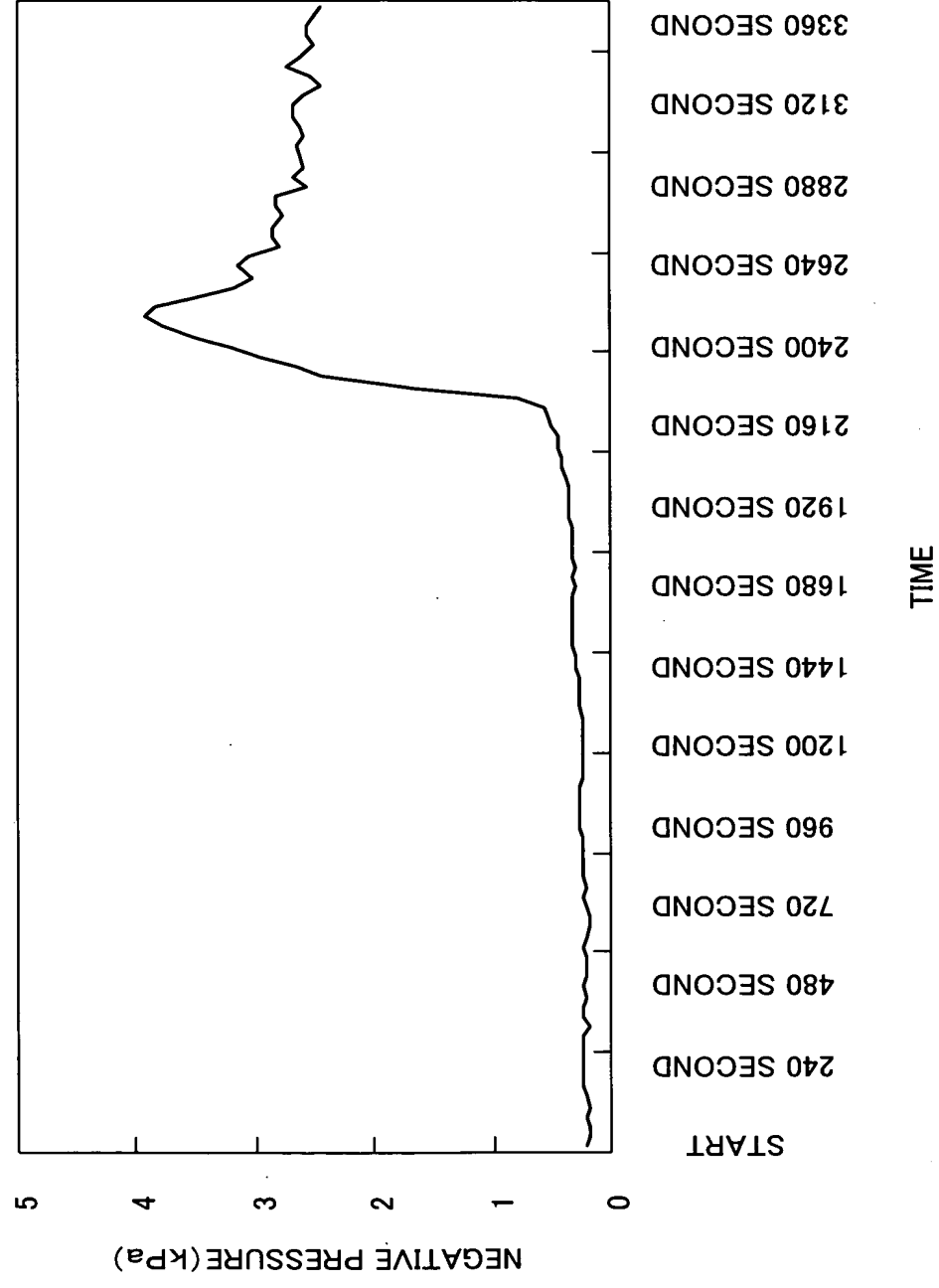
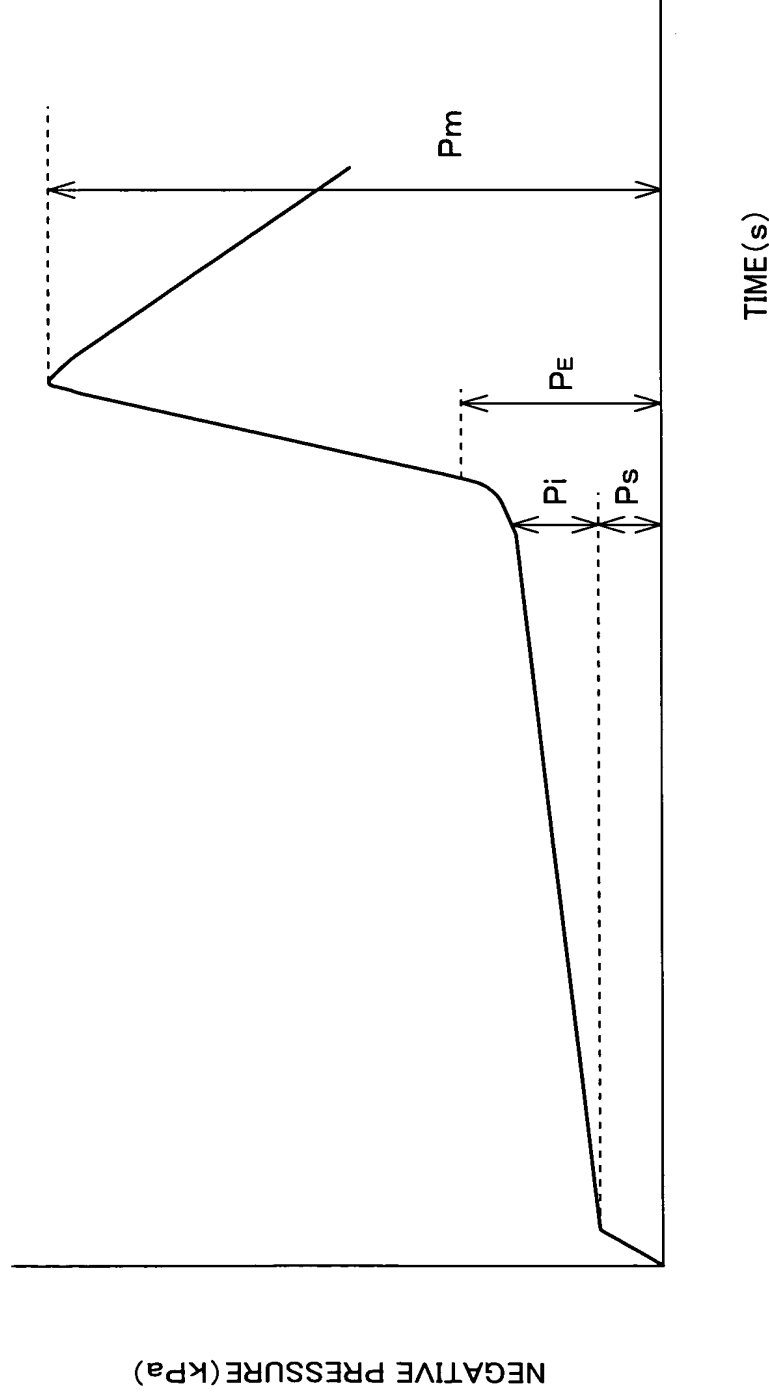


FIG. 7



$P_s$ : NEGATIVE PRESSURE DUE TO VISCOSITY WHEN INK TANK IS FULL OF INK

$P_i$ : INK TANK WATER HEAD PRESSURE (TANK WATER PRESSURE)

$P_E$ : CRITICAL PRESSURE DUE TO INK ABSORBING BODY WHEN INK TANK IS EMPTY OF INK

$P_m$ : CRITICAL PRESSURE DUE TO FILTER

FIG. 8

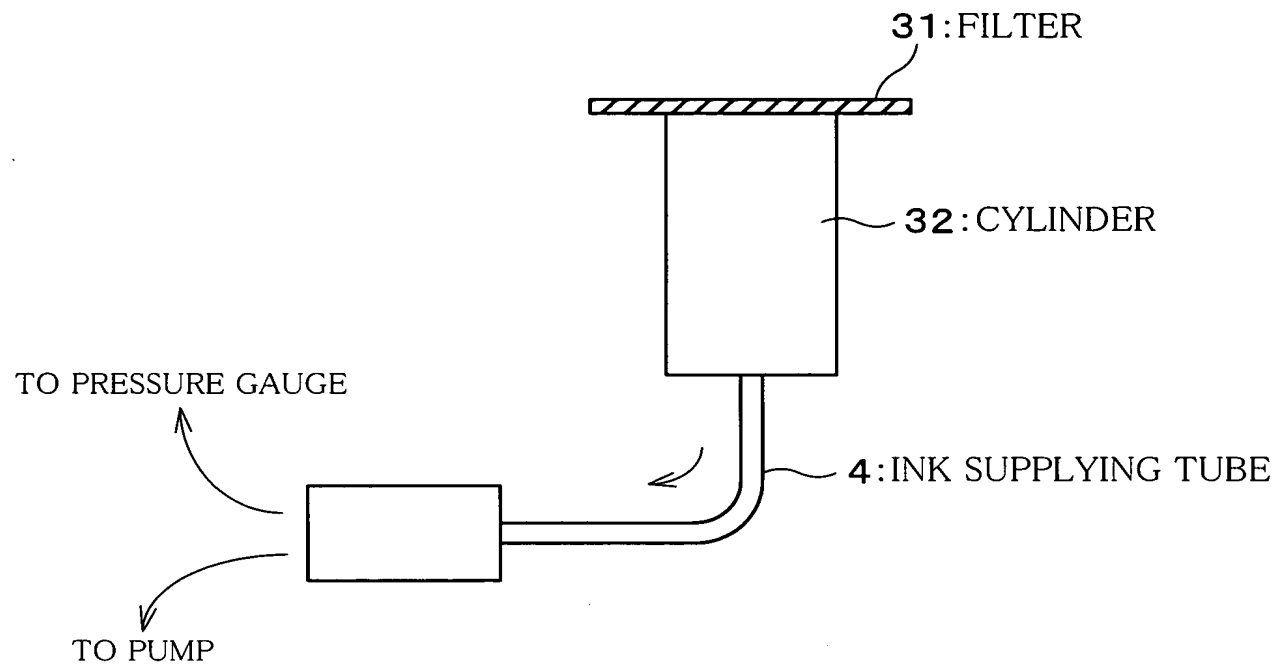




FIG. 9

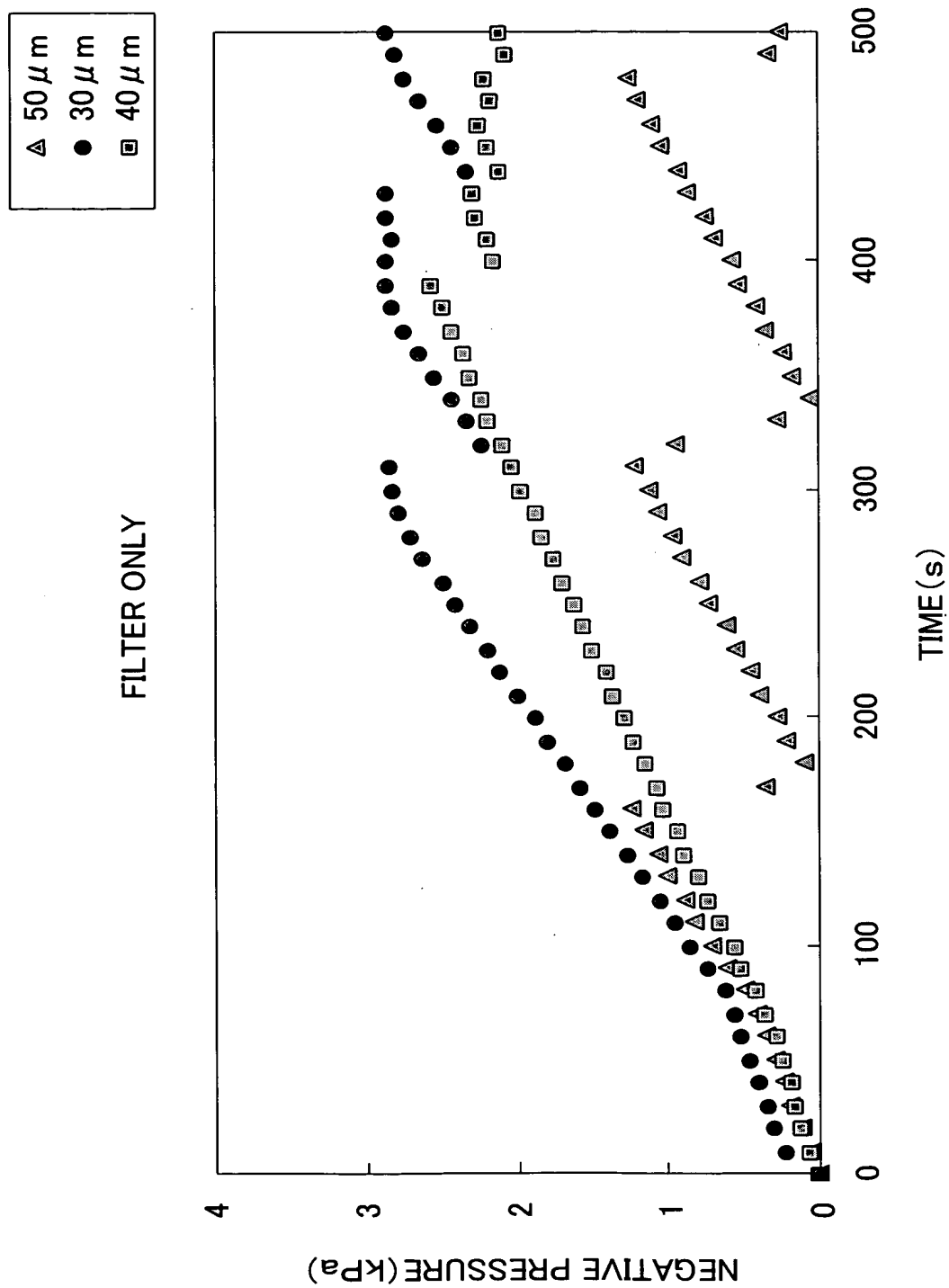


FIG. 10

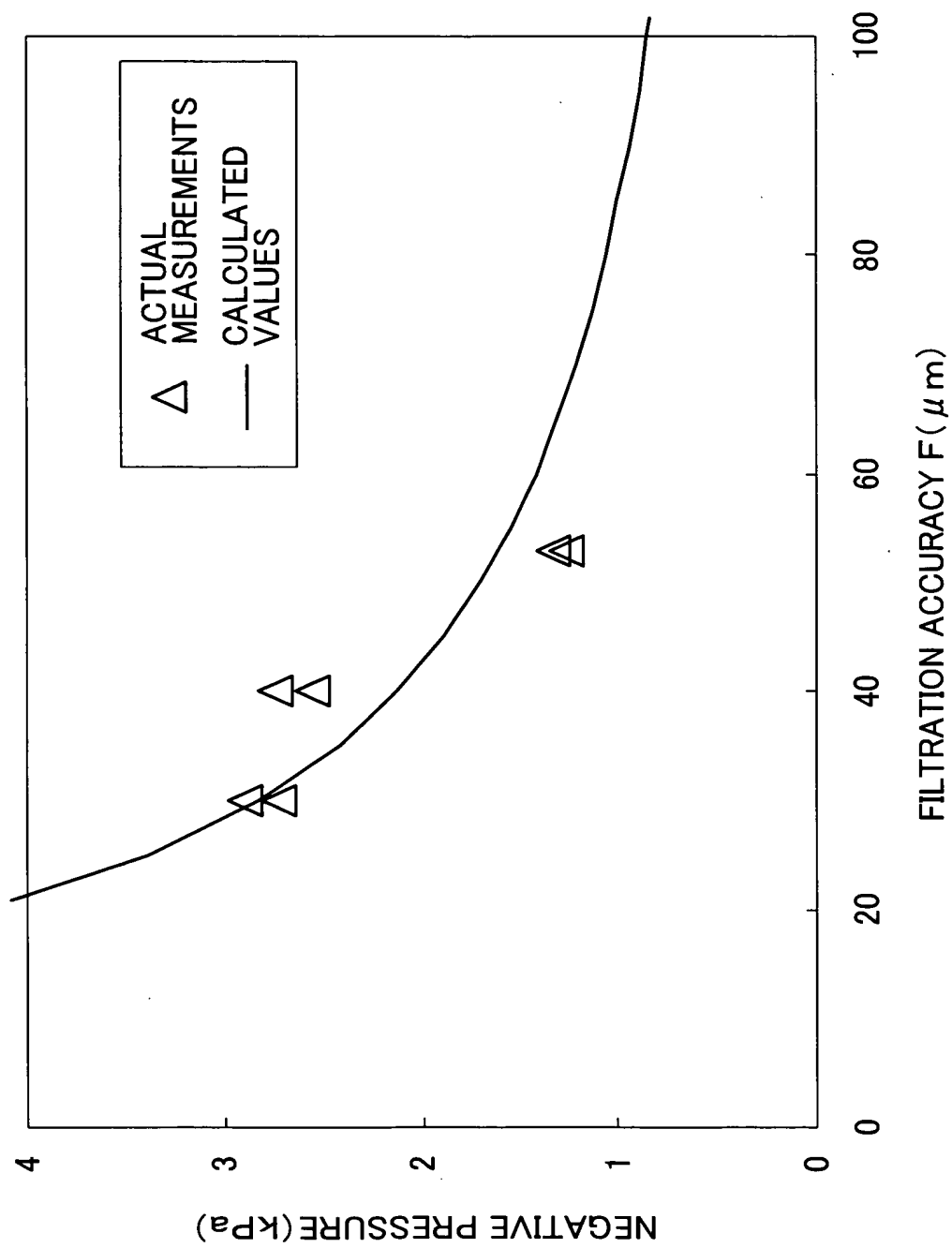


FIG. 11

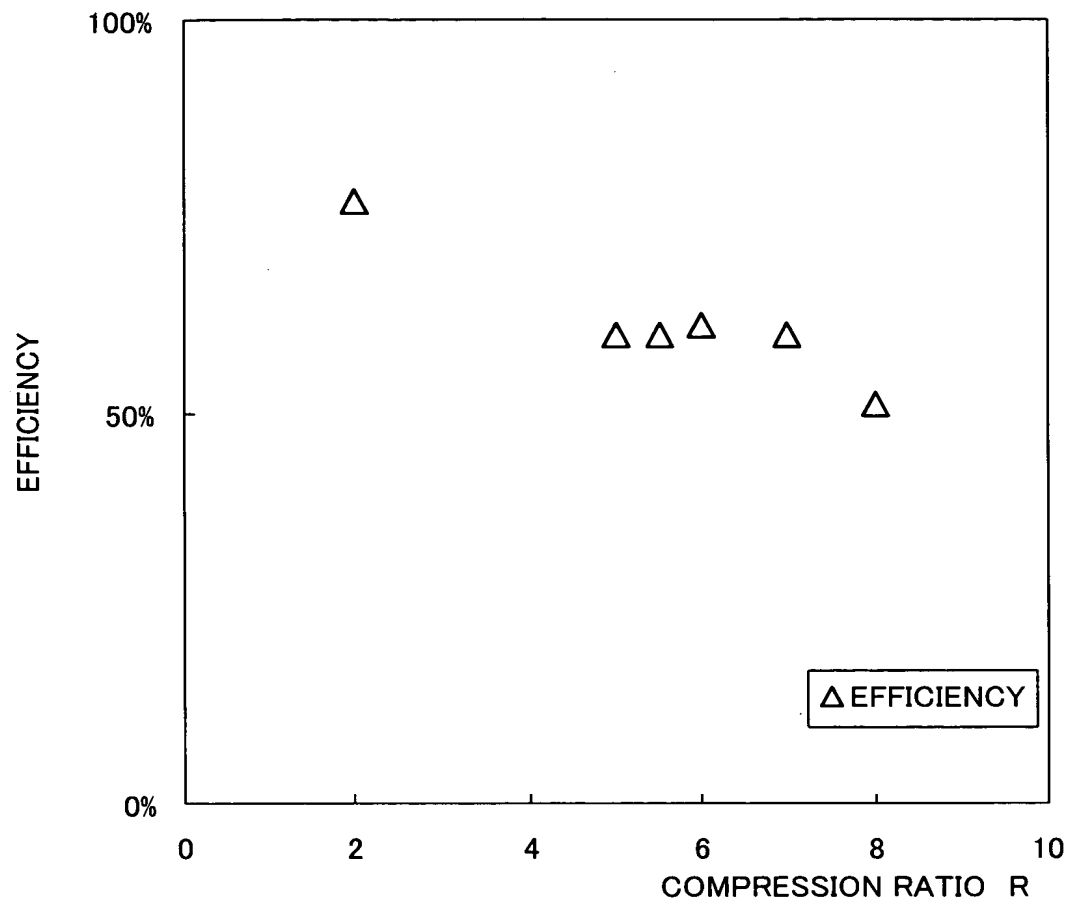


FIG. 12

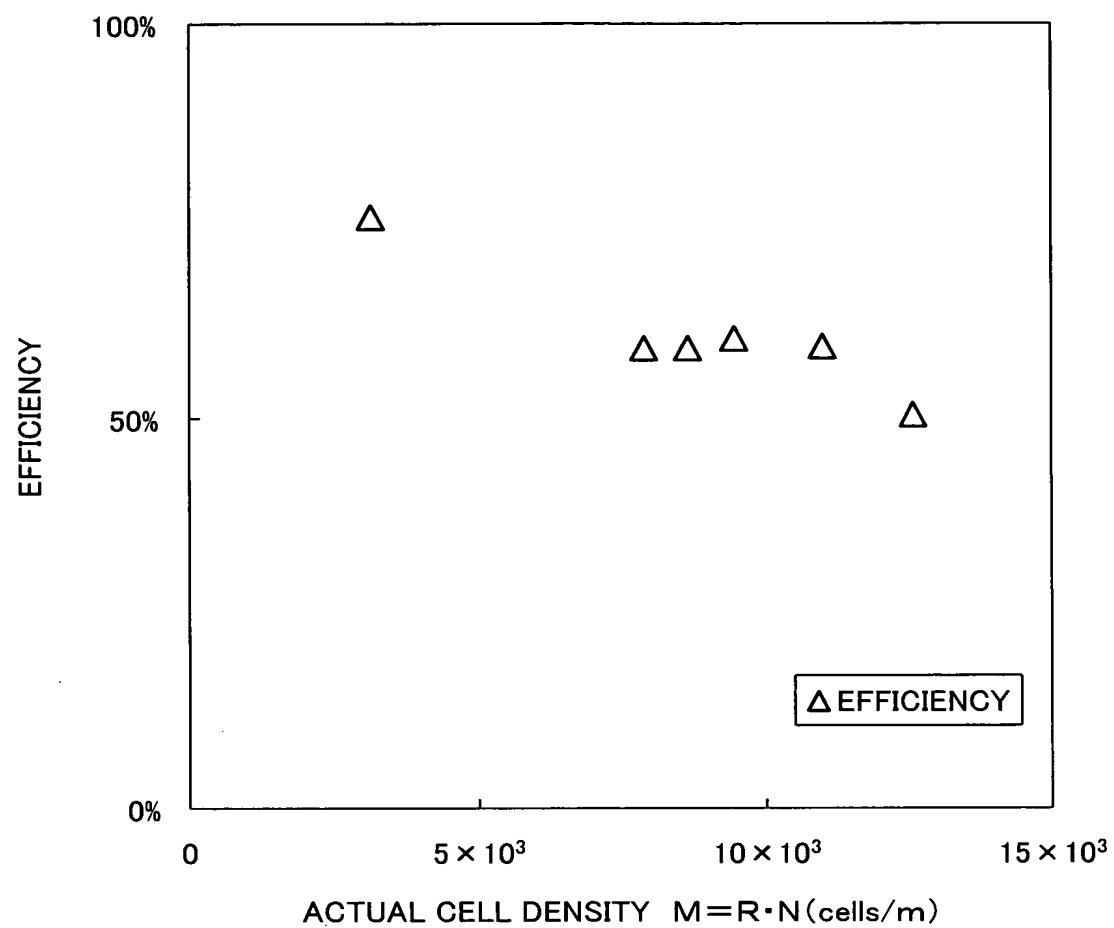


FIG. 13

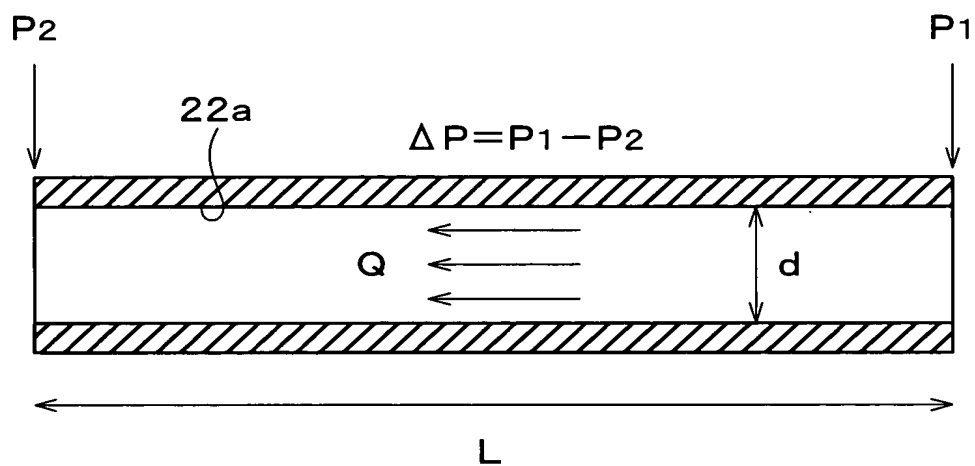


FIG. 14

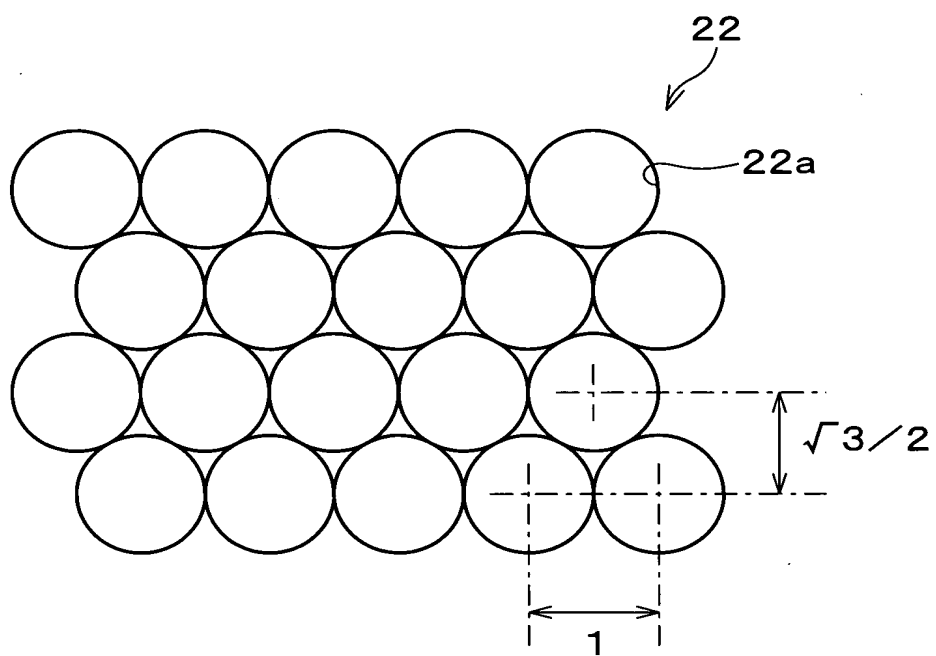


FIG. 15

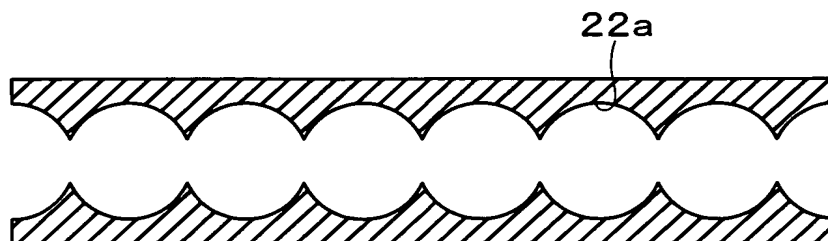
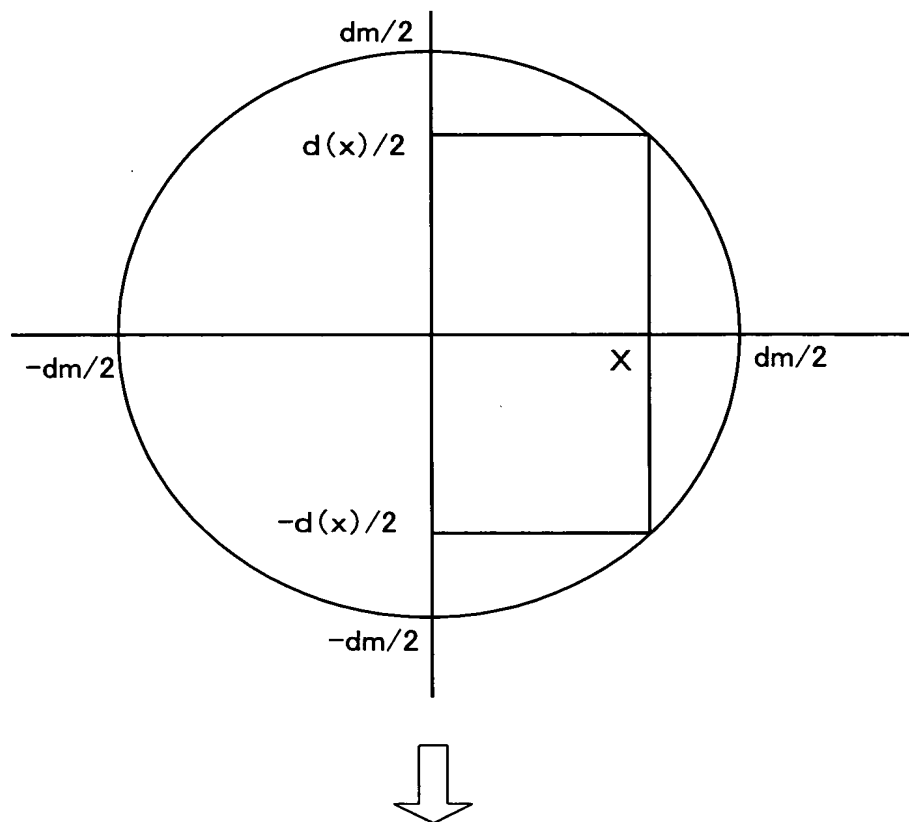


FIG. 16



$$Rd = \int_0^X \frac{1}{\{ 2\sqrt{(dm/2)^2 - X^2} \}^4} dX$$

$$Rm = \int_0^X \frac{1}{dm^4} dX$$

FIG. 17

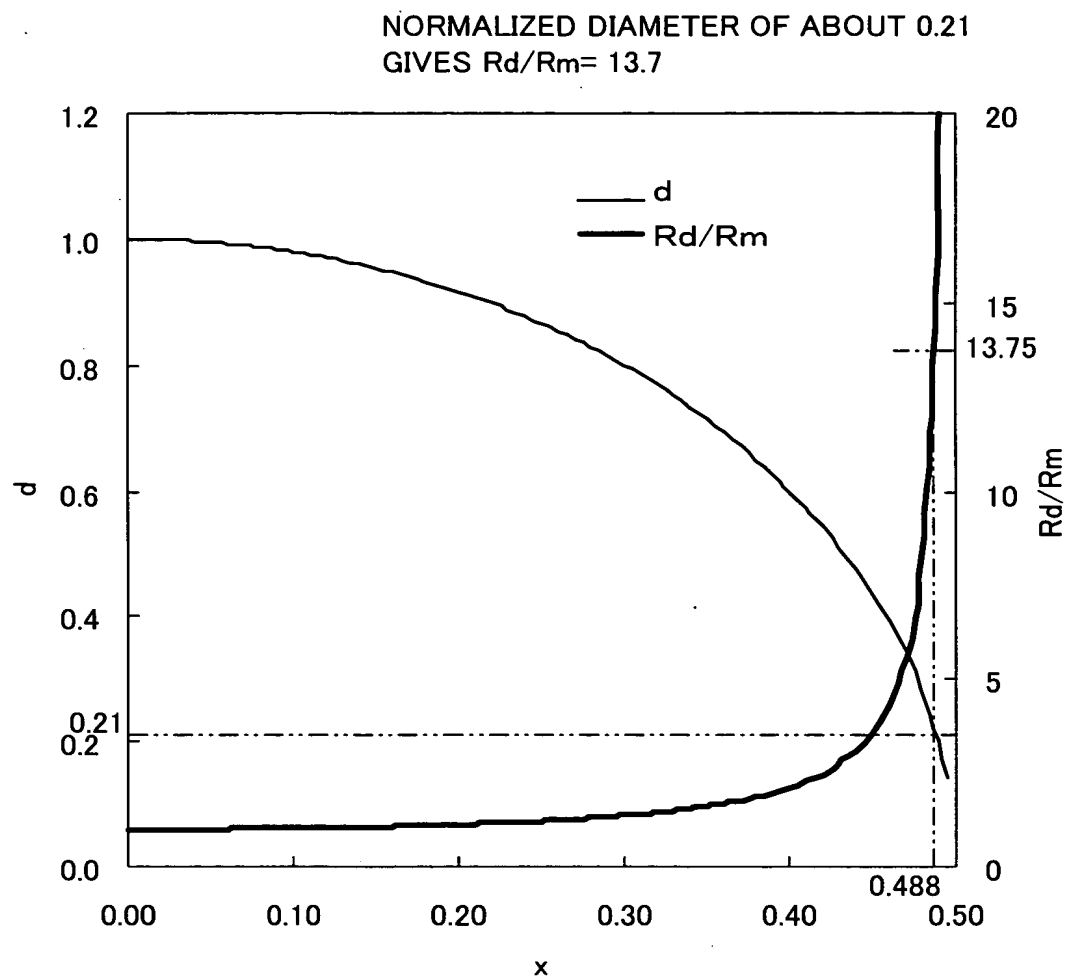


FIG. 18

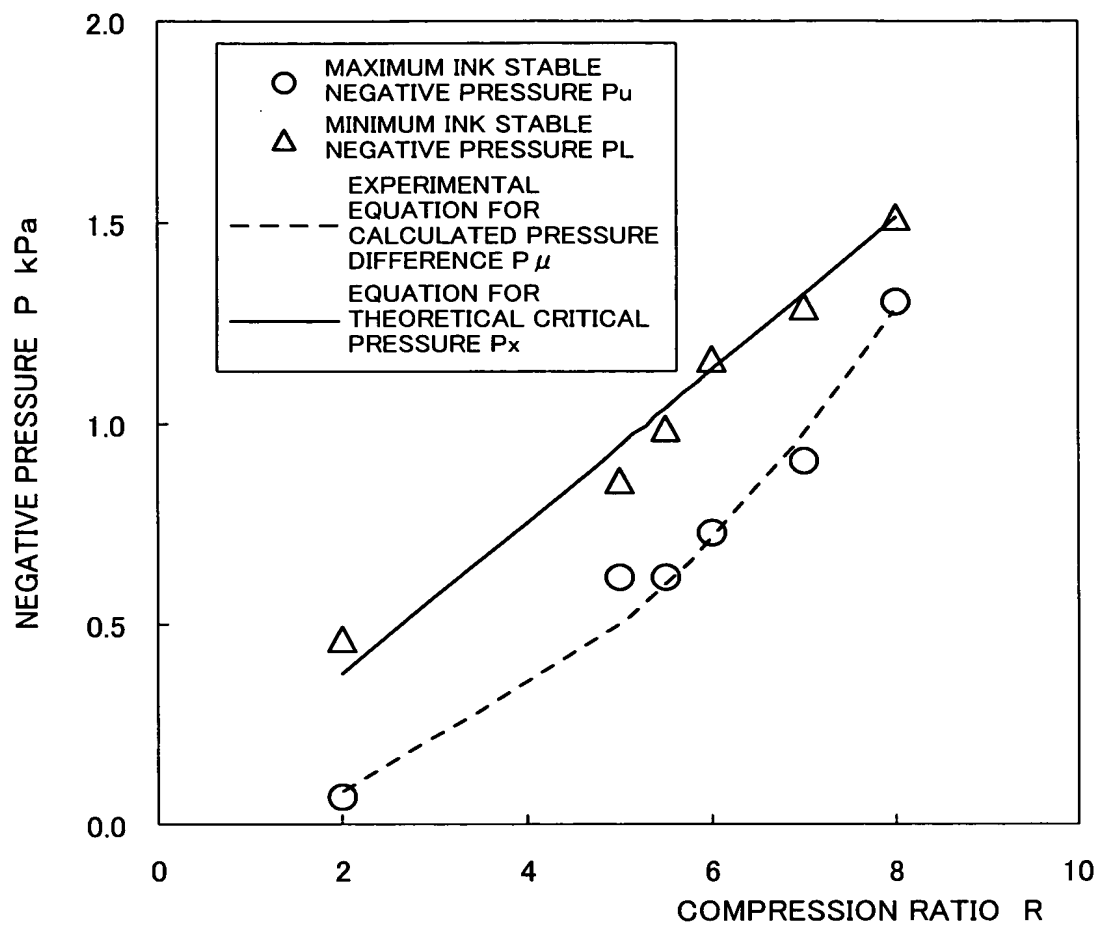
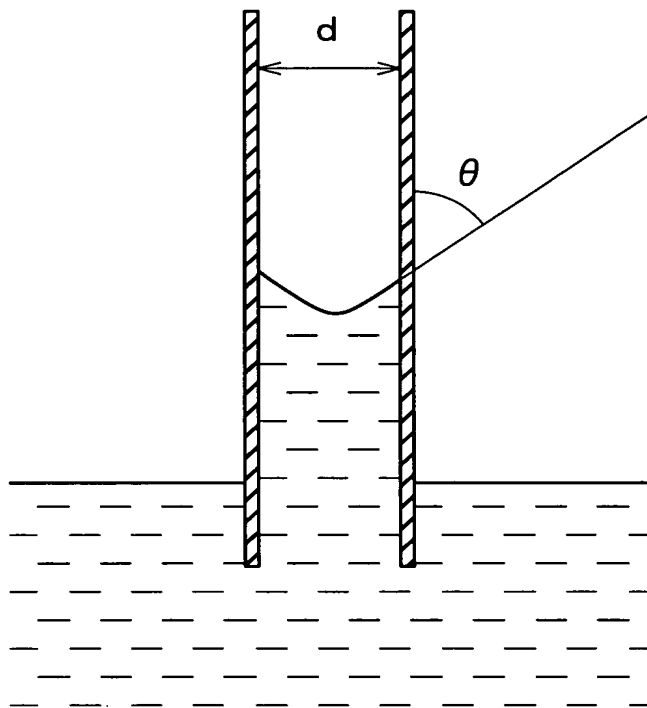


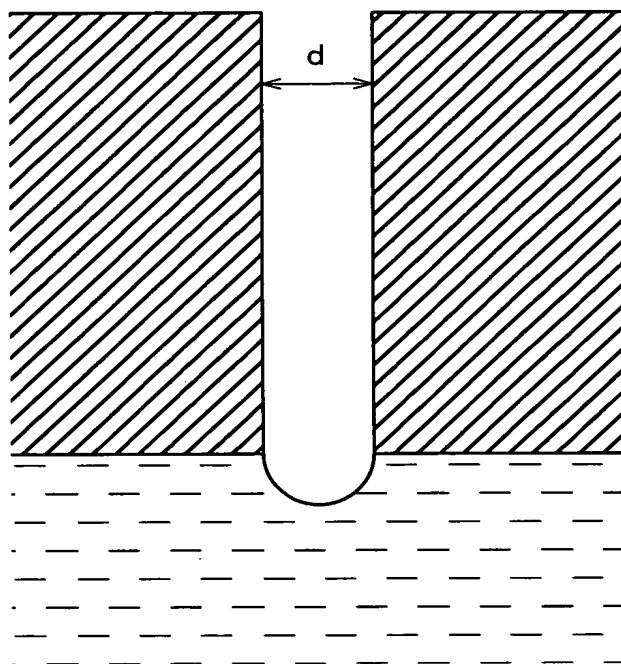


FIG. 19



$$P_t = 4 \eta \cos \theta / d$$

FIG. 20



$$P_t = 4 \eta / d$$

FIG. 21

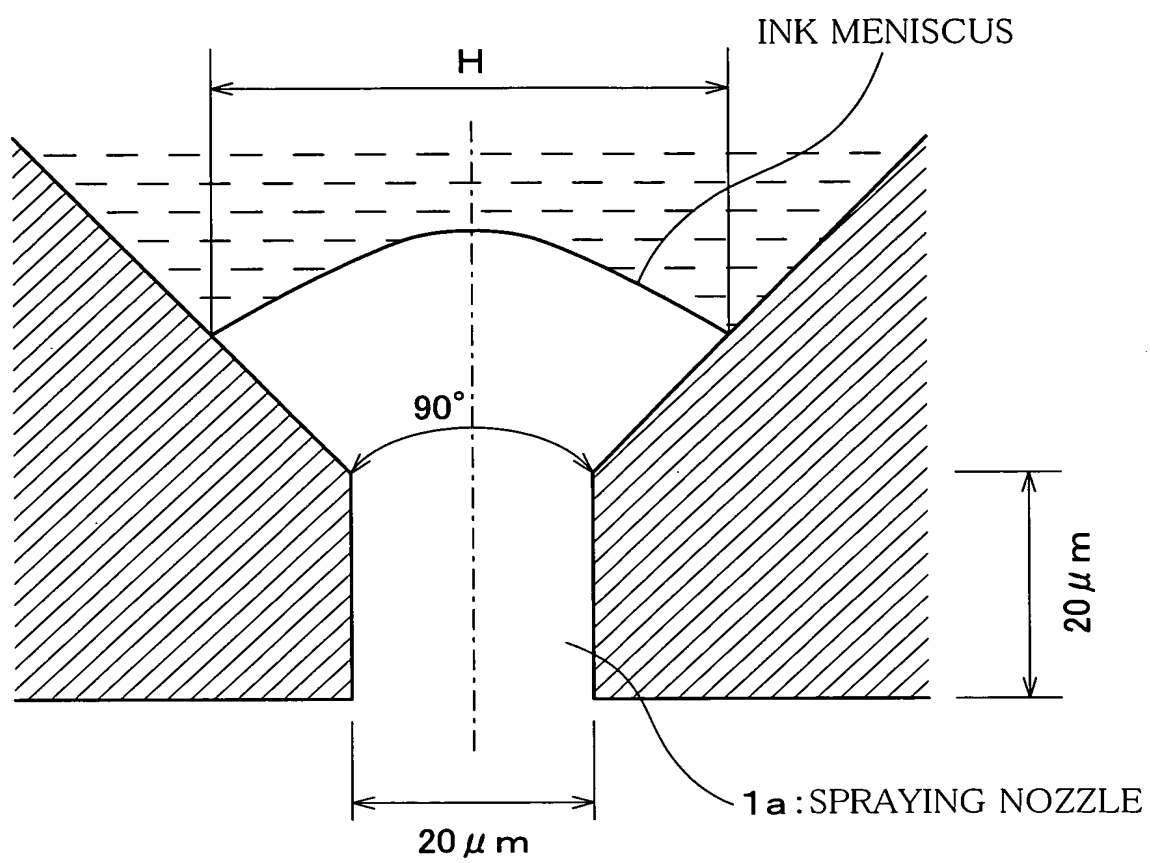


FIG. 22 (a)

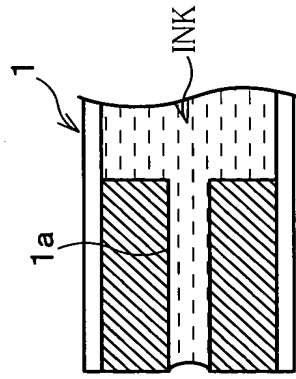


FIG. 22 (b)

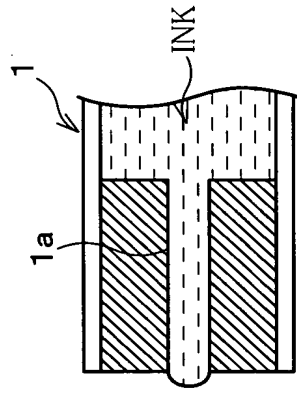


FIG. 22 (c)

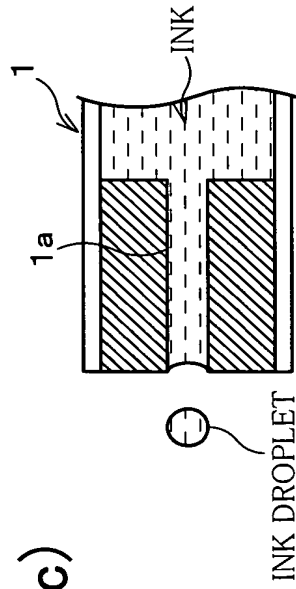


FIG. 22 (d)

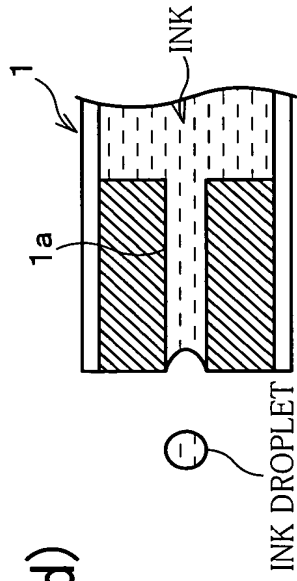


FIG. 22 (e)

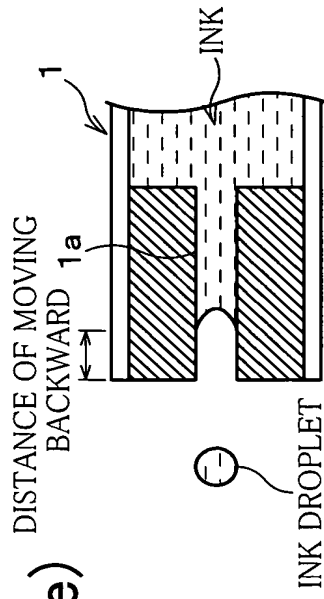


FIG. 22 (f)

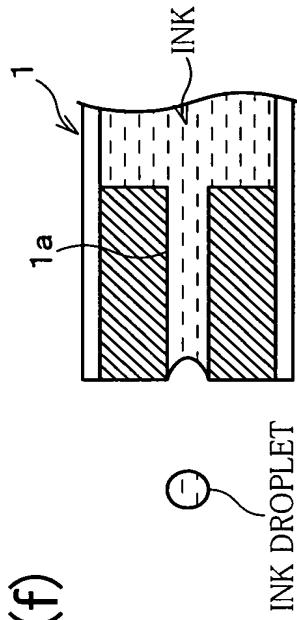


FIG. 22 (g)

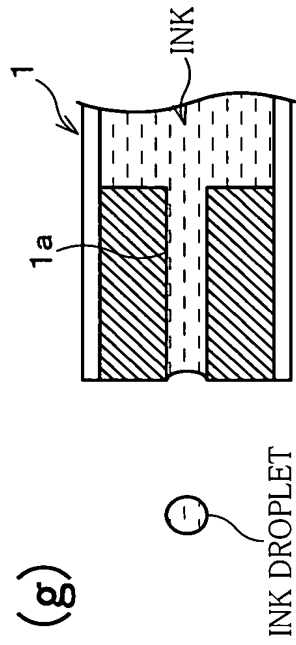


FIG. 22 (h)

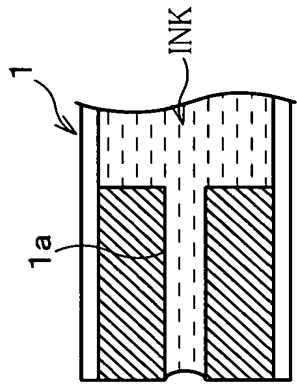


FIG. 23 (a)

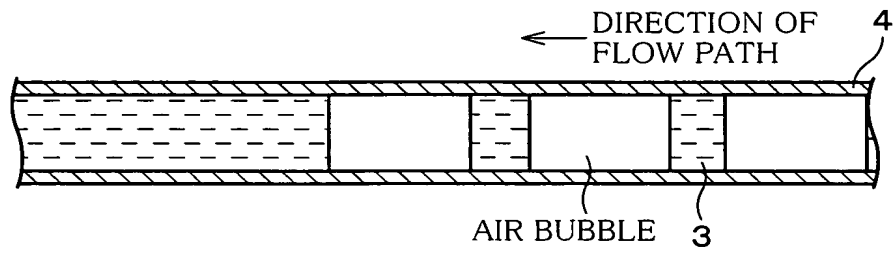


FIG. 23 (b)

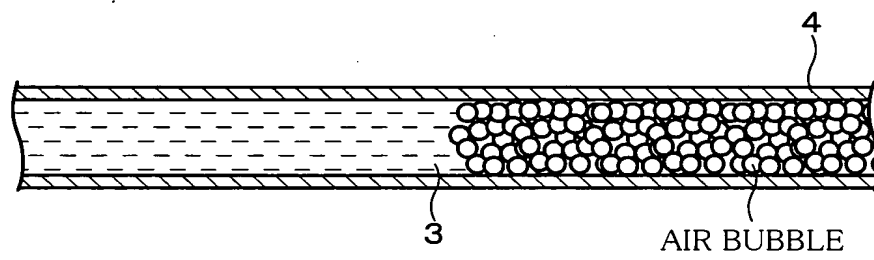


FIG. 24

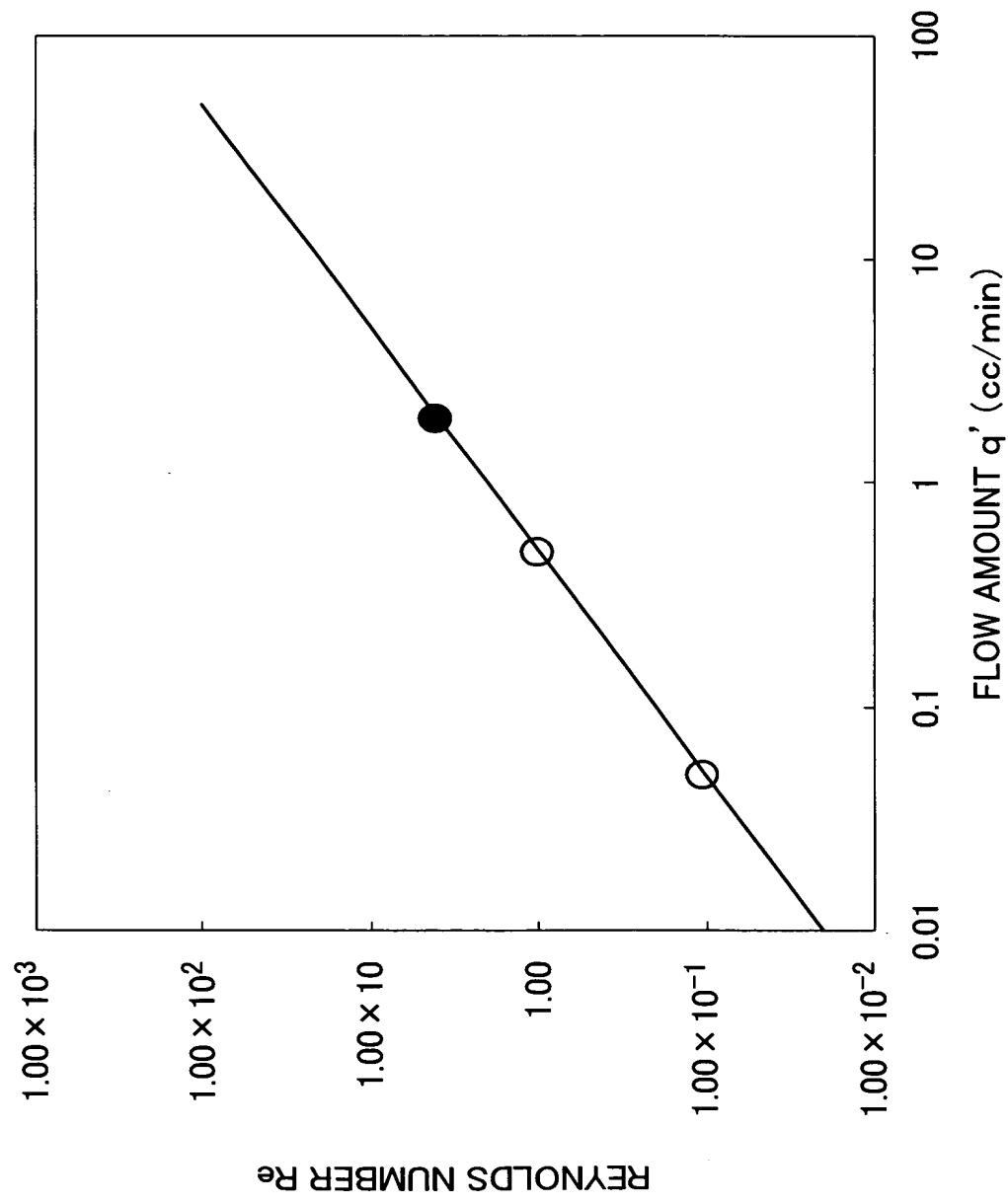


FIG. 25

